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PCT/KR2004/003220

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

	(ICI MIC)	c 50 and Rule 70)		
Applicant's or agent's file reference 6010244-PCT	FOR FURTHER AC	TION	See Form PCT/IPEA/4	16
International application No. PCT/KR2004/003220	International filing date 09 DECEMBER 2	004 (09.12.2004)	Priority date (day/month) 09 DECEMBER 2003 (• •
International Patent Classification (IPC)	or national classification	and IPC		
IPC7 H04M 1/23				
Applicant				
JO, Won-Hyung				·
This report is the international pre- Authority under Article 35 and tra This REPORT consists of a total of	insmitted to the applicant	according to Article 36.		camining
1	• • • • • • • • • • • • • • • • • • • •		eei.	
1	by ANNEXES, comprising to the International Bure	g: au) a total of	sheets, as follows:	
sheets of the desc	cription, claims and/or dra taining rectifications autho	wings which have been	amended and are the basis (see Rule 70.16 and Section	for this report on 607 of the
beyond the disclosing Supplemental Box b. (sent to the International containing a sequence lis	sure in the international a _l x. ! <i>Bureau only)</i> a total of (i	oplication as filed, as incondicate type and number thereto, in electronic for	m only, as indicated in the	o. I and the
4. This report contains indications re	lating to the following ite	ms:		
Box No. I Basis of the				
Box No. II Priority				
Box No. III Non-establis	shment of opinion with re	gard to novelty, inventive	ve step and industrial applic	ability
—	y of invention	••	,	
Box No. V Reasoned si citations and	tatement under Article 35 explanations supporting	(2) with regard to novelt such statement	y, inventive step or industri	ial applicability;
Box No. VI Certain doct	uments cited			
Box No. VII Certain defe	cts in the international app	olication		•
Box No. VIII Certain obse	ervations on the internation	nal application		
Date of submission of the demand		Date of completion of	this report	
21 JUNE 2005 (21.	.06.2005)	14 ЅЕРТЕМЕ	BER 2005 (14.09.2005)	
Name and mailing address of the IPEA/R	Authorized officer			
Korean Intellectual Property 920 Dunsan-dong, Seo-gu, I Republic of Korea	UHM, In Kwon		侧局割	
Facsimile No. 82-42-472-7140	Telephone No. 82-42	-481-5712	الالالحال	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/003220

Box No. I	Basis of the report
·	egard to the language, this report is based on the international application in the language in which it was filed, unless
X T	This report is based on translations from the original language into the following language English
v	which is the language of a translation furnished for the purposes of:
Ļ	international search (under Rules 12.3 and 23.1(b))
· · · ·	publication of the international application (under Rule 12.4)
Ĺ	international preliminary examination (under Rules 55.2 and/or 55.3)
annexed the the pag pag	ges*as originally filed/furnished ges*received by this Authority on received by this Authority on
	claims:
page	as originally filed/furnished
page	as amended (together with any statment) under Article 10
pagé	received by this Authority on
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	drawings:
page page	0.00 11 00 110 110 110 110 110 110 110 1
page	received by this Authority on
3 The	e amendments have resulted in the cancellation of: the description, pages the claims, Nos.
	the drawings, sheets
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
(Rule	report has been established as if (some of) the amendments annexed to this report and listed below had not been e, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box e 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):
If item 4 appl	lies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims Claims	1-18 NONE	YES NO
•	Inventive step (IS)	Claims Claims	1-18 NONE	YES NO
	Industrial applicability (IA)	Claims Claims	1-18 NONE	YES

2. Citations and explanations (Rule 70.7)

1. NOVELTY AND INVENTIVE STEP

Reference is made to the following documents:

D1: KR 2002-63068 A. (JO WON HYUNG ET AL.) 1 August 2002

D2: JP 09-116605 A (SONY CORPORATION) 2 May 1997

D3: JP 11-220523 A (SANYO ELECTRIC CO., LTD.) 10 August 1999

D4: JP 2003-15808 A (KATO SHUNJI) 17 January 2003

The subject matter of claim 1-10 is considered to be a input apparatus including a keypad comprising consonant letters marked on each key of the keypad, and vowel letters arranged in at four directions along the sliding direction of the keypad.

D1 discloses an apparatus and an method of inputting a character using a keypad such as a joy stick and a touch screen in which a plurality of signal sensing units are installed.

D2 discloses the miniaturized telephone set wherein three operation keys have operating functions to which an entry function of numerals and symbols corresponding to four operating positions is assigned. A discrimination means discriminates any operated key among the operation keys and also discriminates a numeral and/or a symbol entered by the operation of the operation key.

D3 discloses a communication terminal including a keypad and a touch panel entry device which provides an output of a signal denoting the presence of contact to its entry plane and a moving amount and a moving direction of a part which is in contact with the input plane.

(Continued on Supplement Box)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

(continuation of Box V)

D4 disclose a tough-type key input apparatus comprising a plurality of character keys having at least two characters on its surface, an input discrimination means for detecting that a character key is touched and capable of discriminating the movement direction in bar touch input to be inputted, a character selection/output means for selecting and outputting a character displayed at the movement direction side with respect to a character key reference position in accordance with the movement direction discriminated by the input discrimination means.

The prior arts do not disclose the subject matter of claims 1-10. Even though the prior arts may be combined, it is not obvious to a skilled person in a mobile communication to derive the subject matter of claims 1-10 from the prior arts.

Therefore, the subject matter of claims 1-10 is considered to have novelty and an inventive step.

The subject matter of claims 11-18 relates to manufacturing method of the subject matter of claims 1-10. Therefore, the subject matter of claims 11-18 is considered to have novelty and an inventive step.

2. INDUSTRIAL APPLICABILITY

Claims 1-18 are considered to have industrial applicability.